

HARSHAW/FILTROL
MATERIAL SAFETY DATA SHEET
(Similar to OSHA Form 20)

CODE: 15252

PRODUCT NAME
Nickel Oxide

H-33-84-WP

DATE: 08/24/84

SECTION I -- IDENTIFICATION

SUPPLIER'S NAME Harshaw/Filtrol Partnership
ADDRESS 30100 Chagrin Blvd.
Cleveland, Ohio 44124

EMERGENCY TELEPHONE 216/292-9200

CHEMICAL NAME Nickel Oxide

CAS No. 1313-99-1

U.N. No. Not applicable

FORMULA NiO

D.O.T. CLASSIFICATION Not regulated

SECTION II -- HAZARDOUS INGREDIENTS OF MIXTURES

Material or Component	%	Threshold Limit Value
Not applicable		

SECTION III -- PHYSICAL DATA

BOILING POINT Not applicable

MELTING POINT Not applicable

SPECIFIC GRAVITY (H₂O=1) 6.6-6.8

VAPOR PRESSURE Not applicable

VAPOR DENSITY (Air=1) Not applicable

SOLUBILITY IN H₂O (% by Wt.) Insoluble

% VOLATILES BY VOLUME Not applicable

EVAPORATION RATE (Butyl Acetate=1)
Not applicable

APPEARANCE AND ODOR Green, odorless powder

SECTION IV -- FIRE AND EXPLOSION DATA

Not a fire or explosion hazard.

SECTION V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
1mg/m³ as Nickel Metal (ACGIH, 1984)

EFFECTS OF OVEREXPOSURE

Eye contact causes irritation.

Skin contact causes irritation and may cause sensitization or allergic skin reactions which may be accentuated by heat and humidity.

Inhalation of dust causes irritation of upper respiratory tract. Individuals hypersensitive to nickel may develop asthma, bronchitis, shortness of breath or wheezing.

NOTE: The insoluble nickel compound(s) in this product have been determined to cause cancer in laboratory animals. No conclusive evidence of human carcinogenicity has been found to date. Nickel metal, nickel oxide and nickel carbonate are listed in the National Toxicology Program's Third Annual Report on Carcinogens, 1983, and the International Agency for Research on Cancer Monograph, Vol. II, 1976.

EMERGENCY AND FIRST AID PROCEDURES

Eye and Skin contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Flush skin with water.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

NICKEL OXIDE

== DATE: 08/24/84 == SECTION VI -- REACTIVITY DATA == CODE: 15252 ==

CONDITIONS CONTRIBUTING TO INSTABILITY None expected

INCOMPATIBILITY None expected

HAZARDOUS DECOMPOSITION PRODUCTS None expected

== SECTION VII -- SPILL OR LEAK PROCEDURES ==

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

If not contaminated, scoop up for reuse. If contaminated, scoop or vacuum into container for disposal. Avoid dusting.

WASTE DISPOSAL METHOD Dispose of in accordance with Federal, state and local laws.

== SECTION VIII -- PROTECTIVE EQUIPMENT ==

VENTILATION General; local exhaust ventilation as necessary to control dust.

PERSONAL PROTECTIVE EQUIPMENT:

Chemical goggles.

Gloves

A NIOSH/MSHA approved respirator as necessary

== SECTION IX -- SPECIAL PRECAUTIONS ==

Avoid breathing dust.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Keep container closed.

== SECTION X -- PERSONNEL SAMPLING PROCEDURE ==

Refer to NIOSH Manual of Analytical Methods, 2nd Edition, Method S206 for information on monitoring for airborne materials containing nickel.

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